

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: HALO COMMERCIAL

Report Number: P238225

Luminaire Tested: **PRS620D010-S6M12-61SNDH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P238225
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-19)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PRS620D010-S6M12-61SNDH
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" NARROW DISTRIBUTION, DEEP TRIM HAZE
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2357.4 lumens
Efficiency: N/A
Efficacy: 117.9 lumens/watt
Spacing Criteria (0/90/45): 0.81 / 0.81 / 0.84
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

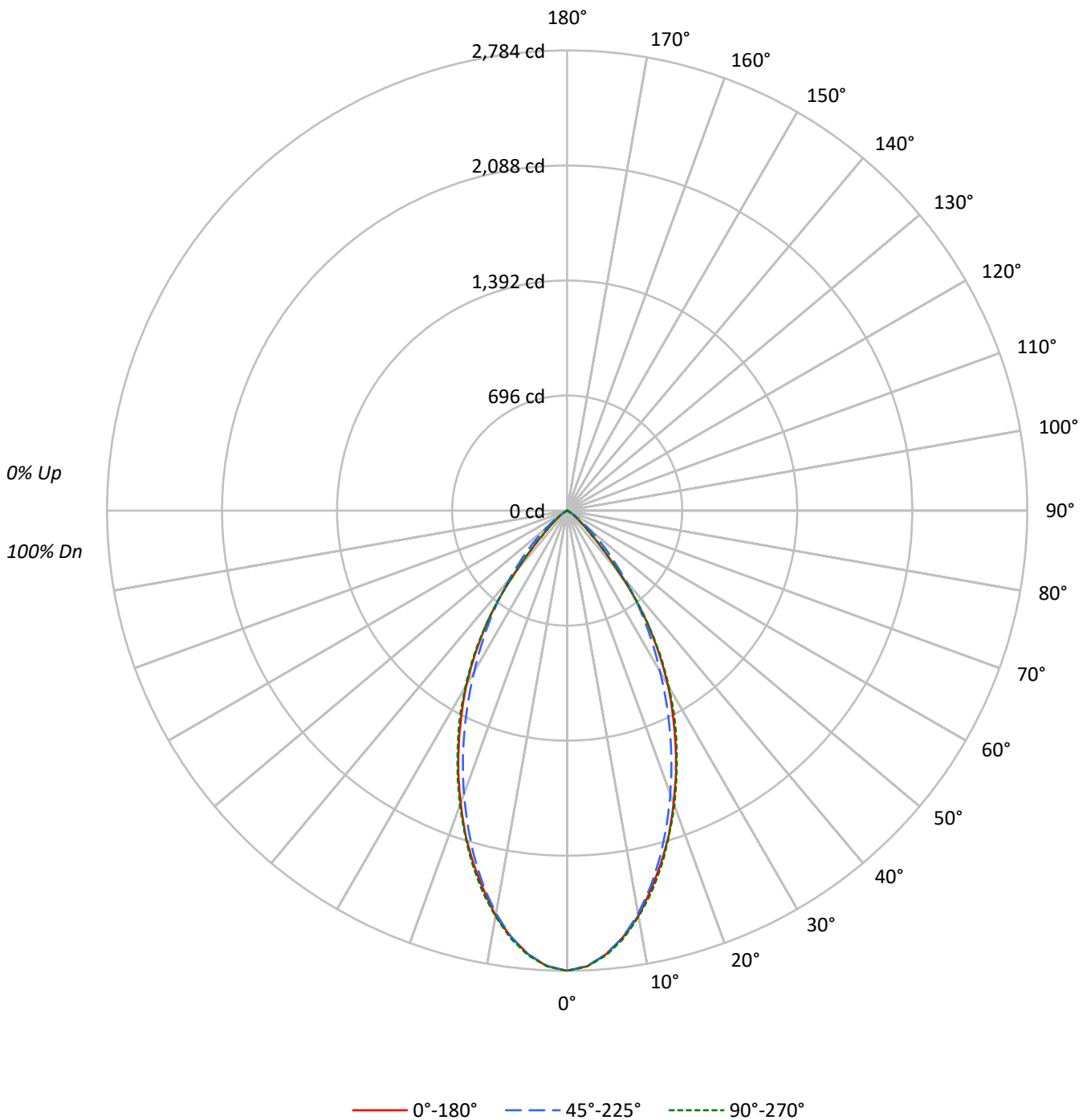
Input Watts (W): 20
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|-----|---|--|---|
| RF | 20 | | | | | 20 | | | | | 20 | | | | | 20 | | | | | 20 | | | | | |
| RC | 80 | | | | | 70 | | | | | 50 | | | | | 30 | | | | | 10 | | | | | 0 |
| RW | 70 | 50 | 30 | 10 | 70 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 0 | | |
| RCR | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 | | | | | 100 | | | |
| 1 | 113 | 111 | 108 | 106 | 111 | 108 | 106 | 104 | 104 | 102 | 101 | 101 | 99 | 98 | 97 | 96 | 95 | 93 | | | | | 93 | | | |
| 2 | 108 | 102 | 98 | 95 | 105 | 101 | 97 | 94 | 98 | 94 | 92 | 95 | 92 | 90 | 92 | 90 | 88 | 86 | | | | | 86 | | | |
| 3 | 102 | 95 | 90 | 86 | 100 | 94 | 89 | 85 | 91 | 87 | 84 | 89 | 85 | 83 | 86 | 84 | 81 | 80 | | | | | 80 | | | |
| 4 | 96 | 89 | 83 | 79 | 95 | 87 | 82 | 78 | 85 | 81 | 77 | 83 | 79 | 76 | 81 | 78 | 75 | 74 | | | | | 74 | | | |
| 5 | 91 | 83 | 77 | 72 | 90 | 82 | 76 | 72 | 80 | 75 | 71 | 78 | 74 | 71 | 77 | 73 | 70 | 68 | | | | | 68 | | | |
| 6 | 87 | 77 | 71 | 67 | 85 | 77 | 71 | 66 | 75 | 70 | 66 | 74 | 69 | 66 | 72 | 68 | 65 | 64 | | | | | 64 | | | |
| 7 | 82 | 72 | 66 | 62 | 81 | 72 | 66 | 62 | 70 | 65 | 61 | 69 | 65 | 61 | 68 | 64 | 61 | 59 | | | | | 59 | | | |
| 8 | 78 | 68 | 62 | 58 | 77 | 68 | 62 | 58 | 66 | 61 | 57 | 65 | 61 | 57 | 64 | 60 | 57 | 55 | | | | | 55 | | | |
| 9 | 74 | 64 | 58 | 54 | 73 | 64 | 58 | 54 | 63 | 57 | 54 | 62 | 57 | 53 | 61 | 57 | 53 | 52 | | | | | 52 | | | |
| 10 | 71 | 61 | 55 | 51 | 69 | 60 | 54 | 51 | 59 | 54 | 50 | 58 | 54 | 50 | 58 | 53 | 50 | 49 | | | | | 49 | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|--------|--------|--------|
| 0° | 119845 | 119845 | 119845 |
| 5° | 116457 | 116457 | 116738 |
| 10° | 108784 | 108215 | 108972 |
| 15° | 98135 | 96682 | 98715 |
| 20° | 86249 | 83564 | 86850 |
| 25° | 73645 | 69830 | 74367 |
| 30° | 60664 | 55916 | 61096 |
| 35° | 45765 | 43137 | 45991 |
| 40° | 27456 | 30750 | 27456 |
| 45° | 12957 | 20094 | 12957 |
| 50° | 6692 | 11488 | 6544 |
| 55° | 3746 | 5052 | 3746 |
| 60° | 1498 | 2248 | 1498 |
| 65° | 438 | 886 | 438 |
| 70° | 277 | 277 | 277 |
| 75° | 0 | 0 | 0 |
| 80° | 0 | 0 | 0 |
| 85° | 0 | 0 | 0 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 250.6 | 10.6 |
| 10°-20° | 609.1 | 25.8 |
| 20°-30° | 690.9 | 29.3 |
| 30°-40° | 522.5 | 22.2 |
| 40°-50° | 219.4 | 9.3 |
| 50°-60° | 56.9 | 2.4 |
| 60°-70° | 7.3 | 0.3 |
| 70°-80° | 0.9 | 0.0 |
| 80°-90° | 0.0 | 0.0 |
| 90°-100° | 0.0 | 0.0 |
| 100°-110° | 0.0 | 0.0 |
| 110°-120° | 0.0 | 0.0 |
| 120°-130° | 0.0 | 0.0 |
| 130°-140° | 0.0 | 0.0 |
| 140°-150° | 0.0 | 0.0 |
| 150°-160° | 0.0 | 0.0 |
| 160°-170° | 0.0 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-30° | 1550.5 | 65.8 |
| 0°-40° | 2073.0 | 87.9 |
| 0°-60° | 2349.2 | 99.7 |
| 0°-90° | 2357.4 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2357.4 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 2784 | 2784 | 2784 | 2784 | 2784 | |
| 5° | 2694 | 2697 | 2694 | 2699 | 2701 | 251 |
| 15° | 2202 | 2186 | 2169 | 2191 | 2215 | 614 |
| 25° | 1550 | 1507 | 1470 | 1516 | 1565 | 709 |
| 35° | 871 | 834 | 821 | 840 | 875 | 533 |
| 45° | 213 | 260 | 330 | 260 | 213 | 184 |
| 55° | 50 | 59 | 67 | 59 | 50 | 47 |
| 65° | 4 | 2 | 9 | 2 | 4 | 5 |
| 75° | 0 | 0 | 0 | 0 | 0 | 1 |
| 85° | 0 | 0 | 0 | 0 | 0 | 0 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CATALOG NUMBER: PRS620D010-S6M12-61SNDH

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 2783.5 | 2783.5 | 2783.5 | 2783.5 | 2783.5 |
| 2.5° | 2759.6 | 2757.4 | 2757.4 | 2759.6 | 2759.6 |
| 5° | 2694.5 | 2696.6 | 2694.5 | 2698.8 | 2701.0 |
| 7.5° | 2601.1 | 2601.1 | 2598.9 | 2603.3 | 2609.8 |
| 10° | 2488.2 | 2479.5 | 2475.2 | 2483.9 | 2492.5 |
| 12.5° | 2344.9 | 2338.4 | 2329.7 | 2344.9 | 2362.3 |
| 15° | 2201.6 | 2186.4 | 2169.0 | 2190.7 | 2214.6 |
| 17.5° | 2049.6 | 2019.2 | 1999.7 | 2027.9 | 2054.0 |
| 20° | 1882.4 | 1852.0 | 1823.8 | 1854.2 | 1895.5 |
| 22.5° | 1719.6 | 1676.2 | 1647.9 | 1682.7 | 1730.5 |
| 25° | 1550.2 | 1506.8 | 1469.9 | 1515.5 | 1565.4 |
| 27.5° | 1380.9 | 1335.3 | 1294.0 | 1344.0 | 1402.6 |
| 30° | 1220.2 | 1163.8 | 1124.7 | 1176.8 | 1228.9 |
| 32.5° | 1042.2 | 990.1 | 968.4 | 1005.3 | 1059.5 |
| 35° | 870.7 | 833.7 | 820.7 | 840.3 | 875.0 |
| 37.5° | 683.9 | 675.2 | 679.6 | 688.3 | 694.8 |
| 40° | 488.5 | 529.8 | 547.1 | 531.9 | 488.5 |
| 42.5° | 325.7 | 382.1 | 427.7 | 382.1 | 330.0 |
| 45° | 212.8 | 260.5 | 330.0 | 260.5 | 212.8 |
| 47.5° | 139.0 | 175.9 | 245.3 | 173.7 | 139.0 |
| 50° | 99.9 | 117.2 | 171.5 | 117.2 | 97.7 |
| 52.5° | 71.6 | 82.5 | 110.7 | 82.5 | 71.6 |
| 55° | 49.9 | 58.6 | 67.3 | 58.6 | 49.9 |
| 57.5° | 32.6 | 39.1 | 39.1 | 39.1 | 32.6 |
| 60° | 17.4 | 23.9 | 26.1 | 23.9 | 17.4 |
| 62.5° | 4.3 | 10.9 | 15.2 | 10.9 | 4.3 |
| 65° | 4.3 | 2.2 | 8.7 | 2.2 | 4.3 |
| 67.5° | 2.2 | 2.2 | 4.3 | 2.2 | 2.2 |
| 70° | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 |
| 72.5° | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 |
| 75° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)